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1. Document ID: US 20050077648 A1

AB: A solvent in which dichloromethane is mixed with alcohol as a poor solvent is used for preparing a dope. Alcohol is supplied to the dope in a inline pipe to mix with a static mixer, such as a casting dope in which a composition of alcohol is increased. The temperature of the rotary drum is adjusted to -7.degree. C. The casting dope is fed from a casting die to the rotary drum so as to form a casting film whose thickness is 40 .mu.m. Since the content of alcohol is high and a storage modulus of the cooled casting film is at least 150 thousands Pa, the peeling defect does not occur, and the stretch is reduced as far as possible. A gel-like film is dried by a tenter type drying device, and stretched such that the stretch ratio is at most 110%. The produced film is thin and excellent in a surface condition and optical isotropy.

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2. Document ID: US 20040244647 A1

AB: A cellulose acylate solution is used for producing a film in a solution casting method. Particles to be added to the cellulose acylate solution are silicon dioxide and surfaces of the particles are positively charged. After the particles are added to the solution, the filtrated solution is used for the film production. Thus the aggregation is prevented, and after the filtration pressure increases, the particles of large size are not contained in the filtrated solution. The obtained film contains a small amount of foreign materials and the situation of the film surface is good.

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3. Document ID: US 20040212892 A1

AB: A dope containing cellulose acylate as a main content of polymer is cast on a front surface of a moving belt in a method of producing a film from a solution. A drying apparatus is confronted to a back surface of said belt to evaporate a solvent in the gel-like film. Further, a condensers are confronted to a cast surface of said gel-like film to condense a solvent vapor for recovery. A wind speed above and near the gel-like film is from 0.01 m/s to 0.5 m/s, and the belt is transported

downwards at the casting position PS. When d (mm) is a distance between the casting surface and each condenser, T_w (°C) is a temperature of each condenser, and T_s (°C) is a temperature of the casting dope, conditions are satisfied: $Q=(T_s-T_w)/d$ and $5 < Q < 100$. The obtained film is excellent in thickness uniformity and optical properties, and therefore adequate for the optical film.

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4. Document ID: US 20040175575 A1

AB: In a multi-layer structure of a cellulose acylate film, the averaged degree of acylation of surface layers is controlled in the range of 0.5 to 2.8 by mixing several sorts of cellulose acylates having different averaged degrees of acylation. One of the surface layers is formed on a substrate by casting a solution containing cellulose acylate made of cotton linter. Lubricant particles are added to a solution for the surface layers, and emission compounds to a solution for the inner layers. The obtained cellulose acylate film is excellent in adhesive property to the hydrophobic material without saponification, and adequately used for the polarizing filter, an optical compensation sheet, and liquid crystal display.

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5. Document ID: US 20040030006 A1

AB: TAC and additives are mixed in a mixture solvent of dichloromethane, methanol and n-butanol to obtain a dispersion solution. The dispersion solution is heated to become a low concentration dope whose concentration is 19.3 wt. %. The low concentration dope is fed with a pump, and supplied through a flash nozzle to a concentrating apparatus to performing flash evaporation of the solvent in the concentrating apparatus. Thus part of the solvent in the low concentration dope evaporates to obtain a condensed dope. The part of the solvent is condensed on a condensation surface to obtain a condensed solvent. The condensed solvent flows through a pipe out of the concentrating apparatus. The high concentration dope has a solid content of 22.3 wt. %, and drawn through a pump. As the solid content of the high concentration dope is high, a polymer film having the self-supporting property can be easily formed of the high concentration dope in a film production line.

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = SUGIURA

First Name = MASARU

Application#	Patent#	Status	Date Filed	Title	Inventor Name 5
10959132	Not Issued	020	10/07/2004	SOLUTION CASTING METHOD AND POLYMER FILM	SUGIURA, MASARU
10791804	Not Issued	030	03/04/2004	CELLULOSE ACYlate FILM AND PRODUCING METHOD THEREOF	SUGIURA, MASARU
10686621	Not Issued	019	10/17/2003	METHODS FOR FILTRATING AND PRODUCING POLYMER SOLUTION, AND FOR PREPARING SOLVENT	SUGIURA, MASARU
10481447	Not Issued	071	12/19/2003	POLYESTER RESIN FOR TONER, PROCESS FOR PRODUCING POLYESTER RESIN FOR TONER, AND TONER CONTAINING THE SAME	SUGIURA, MASARU
06427141	4502975	150	09/29/1982	COMPOSITION FOR RECOVERING ORGANIC MATERIAL FROM AN OILY LAYER ON A BODY OF WATER	SUGIURA, MASARU

Inventor Search Completed: No Records to Display.

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